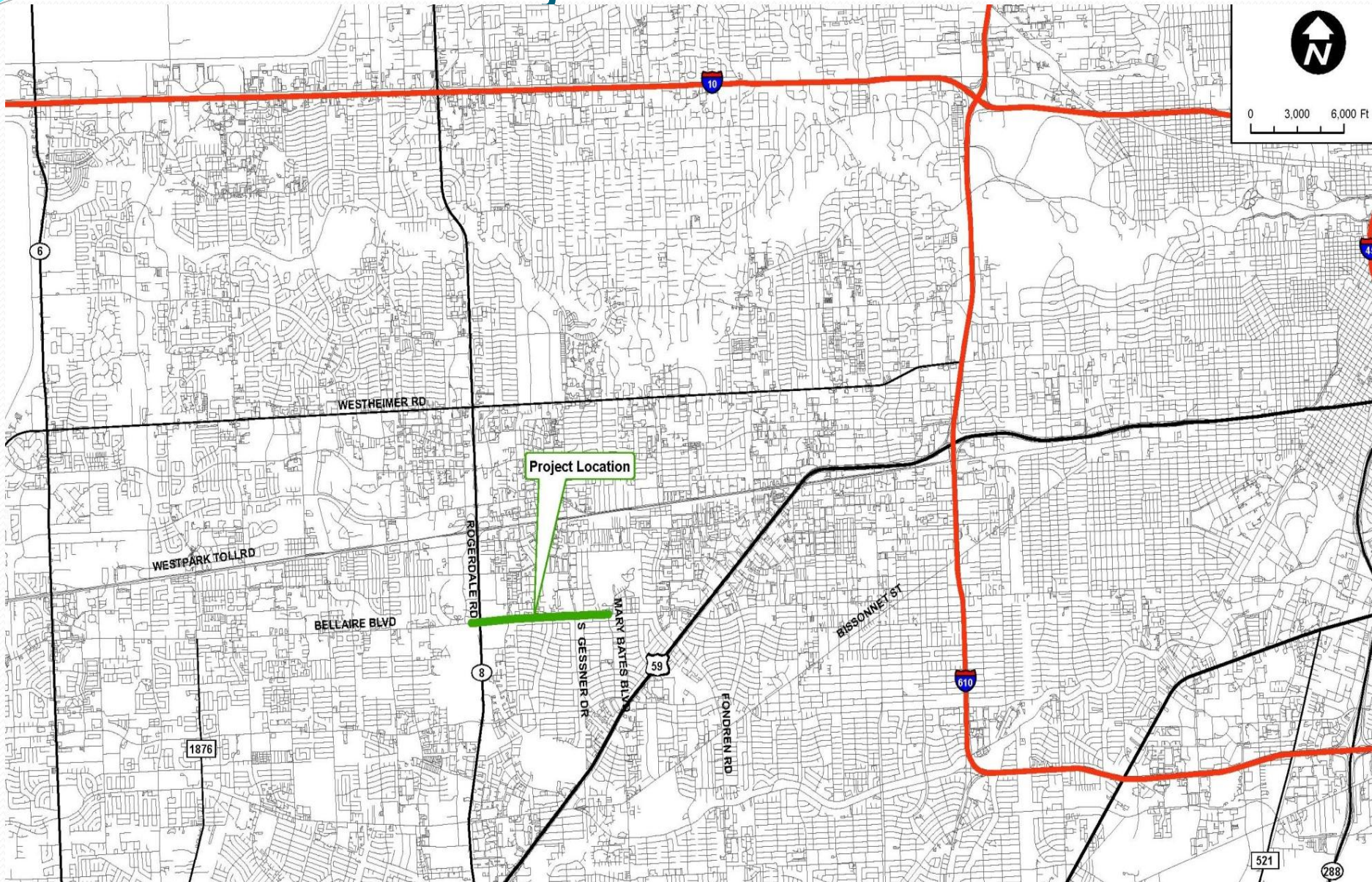


Bellaire Boulevard Access Management and Widening Project

(Rogerdale Road to Osage Street)

Project Location



Background

The initial project as authorized by the Southwest Houston Redevelopment Authority included the following improvements:

- addition of a westbound lane
- addition of median channelizations
- increased turning bay capacity
- upgrades to the underground utilities
- hardscape and landscape enhancements along the corridor.

In early 2010, the project was revised to add full pavement reconstruction and a new water line.

Roadway Improvements

- Previous improvements included ONLY Median Channelization and addition of one westbound lane.
- New project will do the same plus reconstruct the entire section of roadway from bottom up and curb to curb
- Project will also add capacity to Beltway 8 Frontage Roads for additional turning movements

CenterPoint Gas Lines

- All costs to be incurred by CenterPoint Energy
- 12” gas line relocation along the South side of the Road from Beltway 8 to East of Corporate Drive
- Various relocations and deepening of 6” and 8” lines

AT&T/SWBT and Cable Lines

- All costs to be incurred by Utility Companies
- Various relocations and deepening of service connections
- Project will start concurrently with CenterPoint

Water

- 30" Distribution line – Beltway 8 to Corporate
- 20" to 24" Distribution Line – Corporate to Mary Bates
- Various service crossings throughout project

Sanitary Sewer

- 10" to 12" Collection line – Various locations
- 24" Collection Line – Kendalia to Gessner
- Various service crossings throughout project

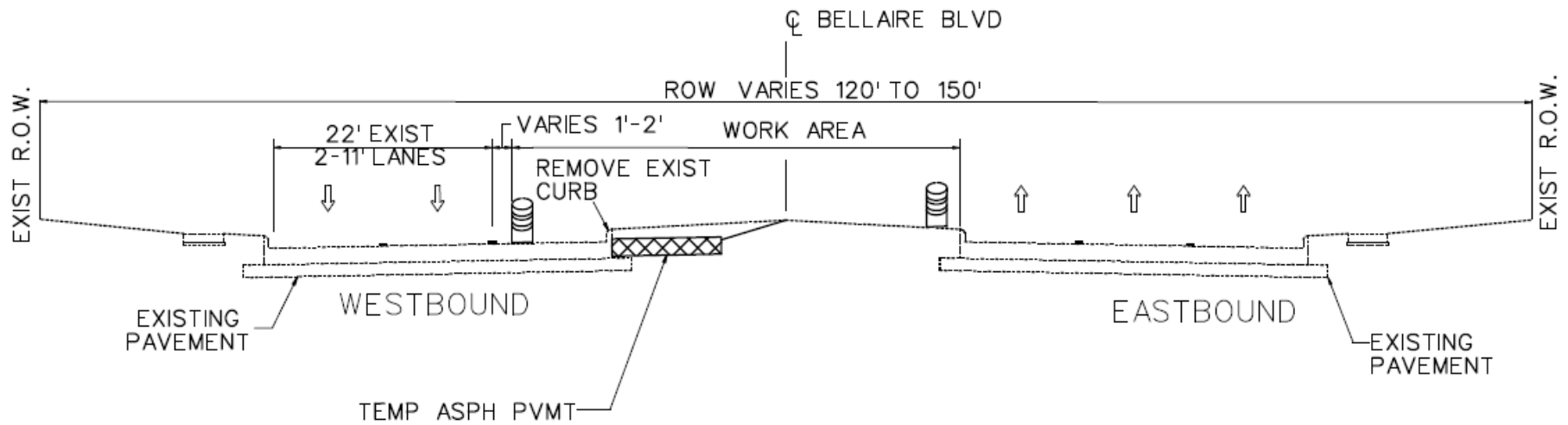
Storm Sewer/Drainage

- 48" to 66" Drainage Line – Beltway 8 to Corporate
- 4' x 3' to 6' x 4' Drainage Box – East of Corporate
to East of Pella
- 30" to 36" Drainage Line – Gessner to Harbor Town
- 84" to 96" Drainage Line – Harbor Town to Osage
- All necessary inlets, catch basins and appurtenances

SEQUENCE OF CONSTRUCTION

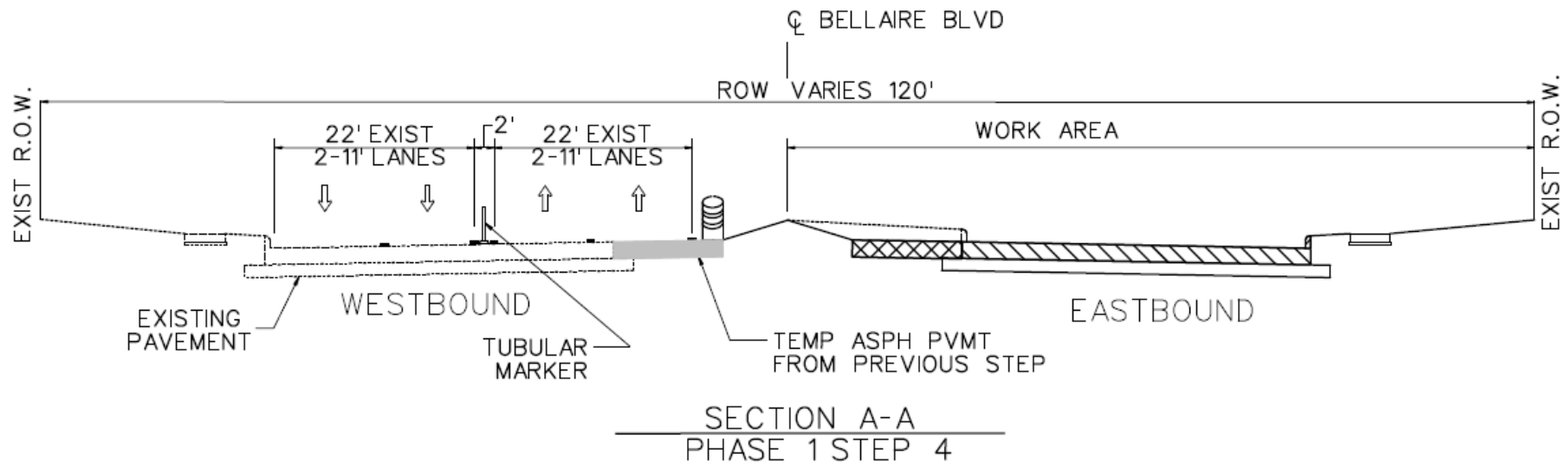
- GAS AND TELEPHONE RELOCATION – Complete Mid March
- WATER LINE
- STORM SEWER
- PAVING & TRAFFIC SIGNALS
- LANDSCAPING

FIRST MAJOR PHASE - TO ACCOMMODATE BUILDING EXTRA TEMPORARY PAVEMENT

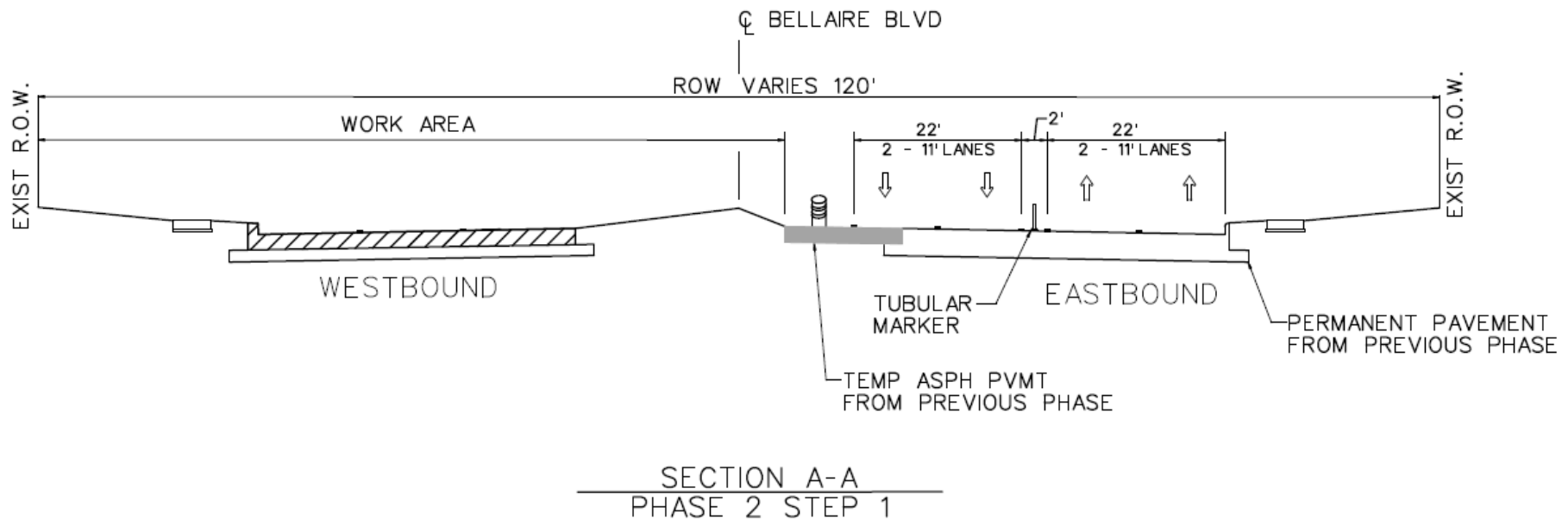


SECTION A-A
PHASE 1 STEP 3

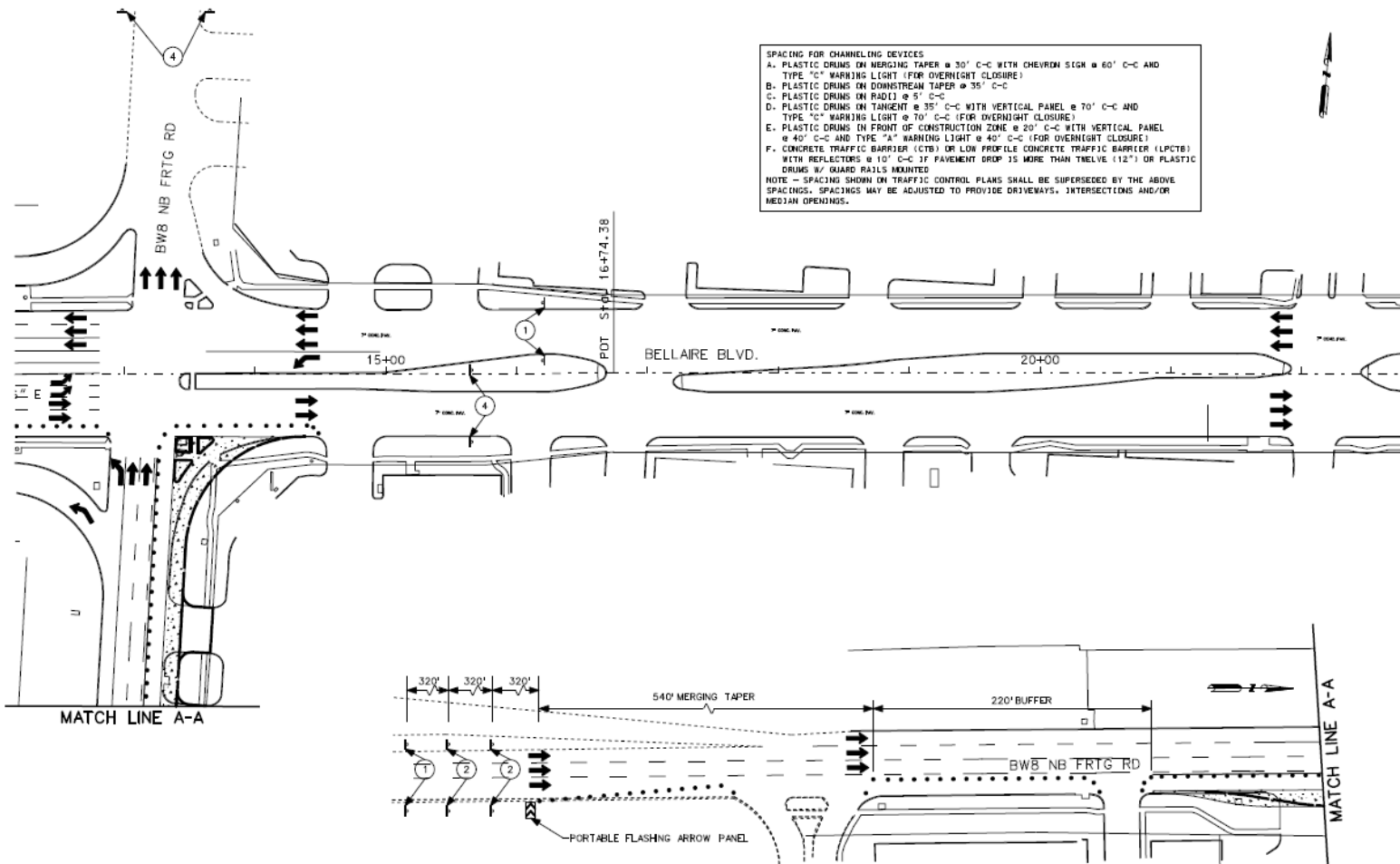
**SECOND MAJOR PHASE -
MOVE TRAFFIC TO NORTH SIDE OF ROADWAY
TO CONSTRUCT WATER LINES, DRAINAGE LINES AND PAVEMENT**



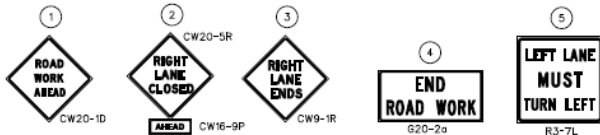
THIRD MAJOR PHASE - MOVE TRAFFIC TO SOUTH SIDE OF ROADWAY TO CONSTRUCT DRAINAGE LINES AND PAVEMENT



Phase 1 Step 1 Traffic Control Plan



NOTE:
1. ALL LANE WIDTHS ARE 11' UNLESS OTHERWISE NOTED.
2. WHEN LOW PROFILE CONCRETE TRAFFIC BARRIER IS ADJACENT TO TRAFFIC, ANY END FACING APPROACHING TRAFFIC SHALL BE PROTECTED BY A LOW PROFILE CONCRETE TRAFFIC BARRIER TAPERED END SECTION.



LEGEND	
	PERMANENT PAVEMENT CONSTRUCTION
	TEMPORARY ASPHALT PAVEMENT
	1.5\"/>
	HIGH EARLY STRENGTH QUICK SET CONCRETE PAVEMENT CONSTRUCTION
	TEMPORARY ASPHALT PAVEMENT CONSTRUCTED IN PREVIOUS PHASE/STEP
	DRUMS
	TYPE II BARRICADE
	LOW PROFILE CONCRETE TRAFFIC BARRIER
	CONSTRUCTION SIGN
	TRAFFIC DIRECTION ARROW
	TEMP 4\"/>
	TEMP 4\"/>
	TEMP 24\"/>
	TEMP 4\"/>
	TEMP 4\"/>

Texas Department of Transportation

NOTE
CONTRACTOR TO NOTIFY UTILITY COORDINATION COMMITTEE AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION IN STREET R.O.W. OR EASEMENTS
(713) 223-4557

PRIVATE UTILITY LINES SHOWN			
Centerpoint Energy/Electric Facilities	Date		
AT&T Texas/SBC Utility Lines Shown	Date		
Centerpoint Energy/Gas Facilities	Date		
Comcast of Houston, LLC	Date		
REV NO	DESCRIPTION	APP'D	DATE

HNTB
2905 NORTH LOOP WEST
SUITE 600
HOUSTON, TEXAS 77062
TEL: 281-440-0000
TX P&M No. 430

SURVEYED BY: SAM INC.
FB NO. P-5482

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
BELLAIRE BLVD. ACCESS MANAGEMENT & WIDENING
TRAFFIC CONTROL PLAN
PHASE 1 STEP 1
RIGHT TURN LANES AT
BELTWAY 8 NB FRGT RD
SHEET 2 OF 2

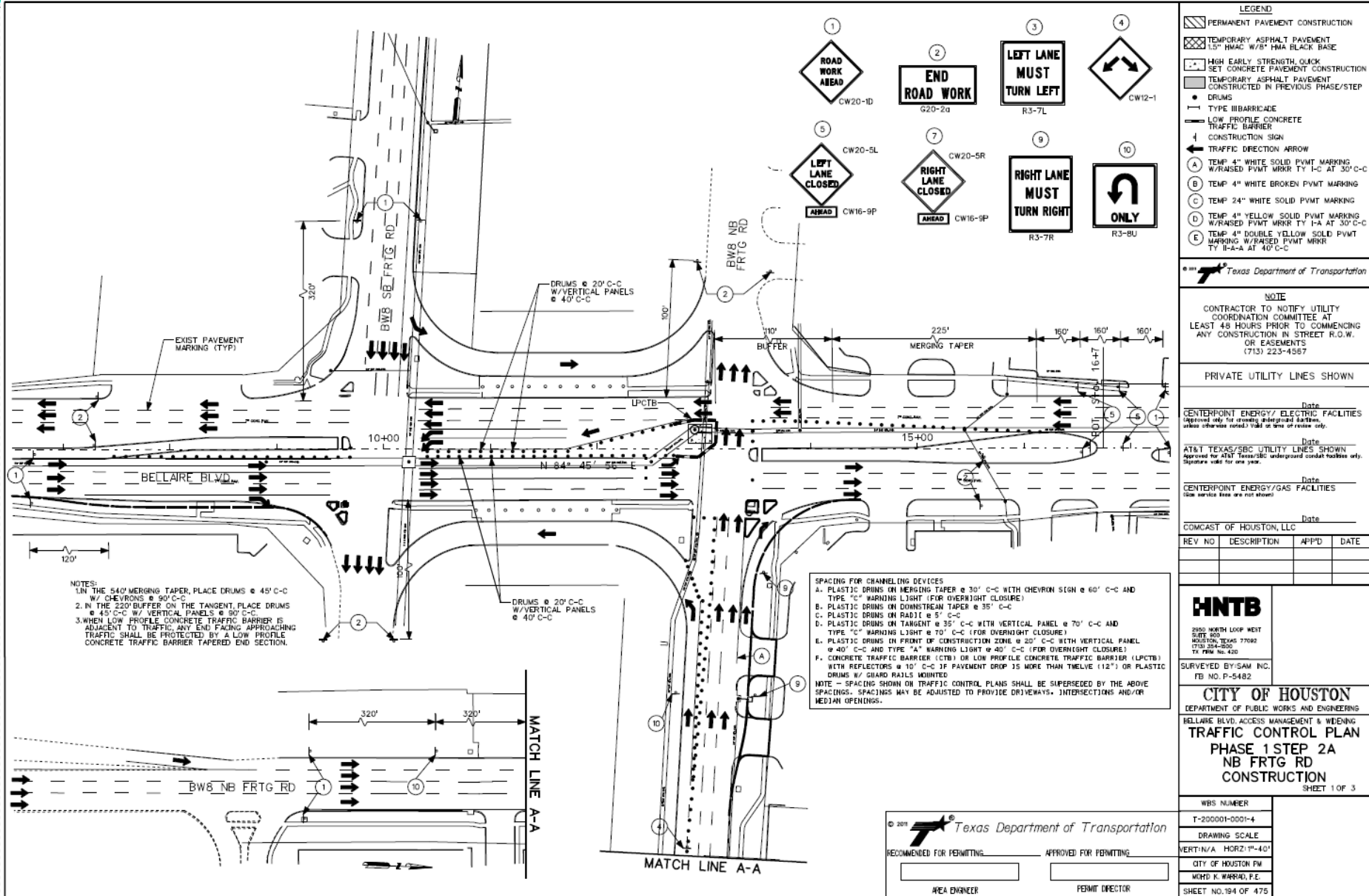
WBS NUMBER	T-200001-0001-4
DRAWING SCALE	VERT: N/A HORIZ: 1"=40'
CITY OF HOUSTON PW	WCHD K. WARRAD, P.E.
SHEET NO. 193 OF 475	

2011 Texas Department of Transportation

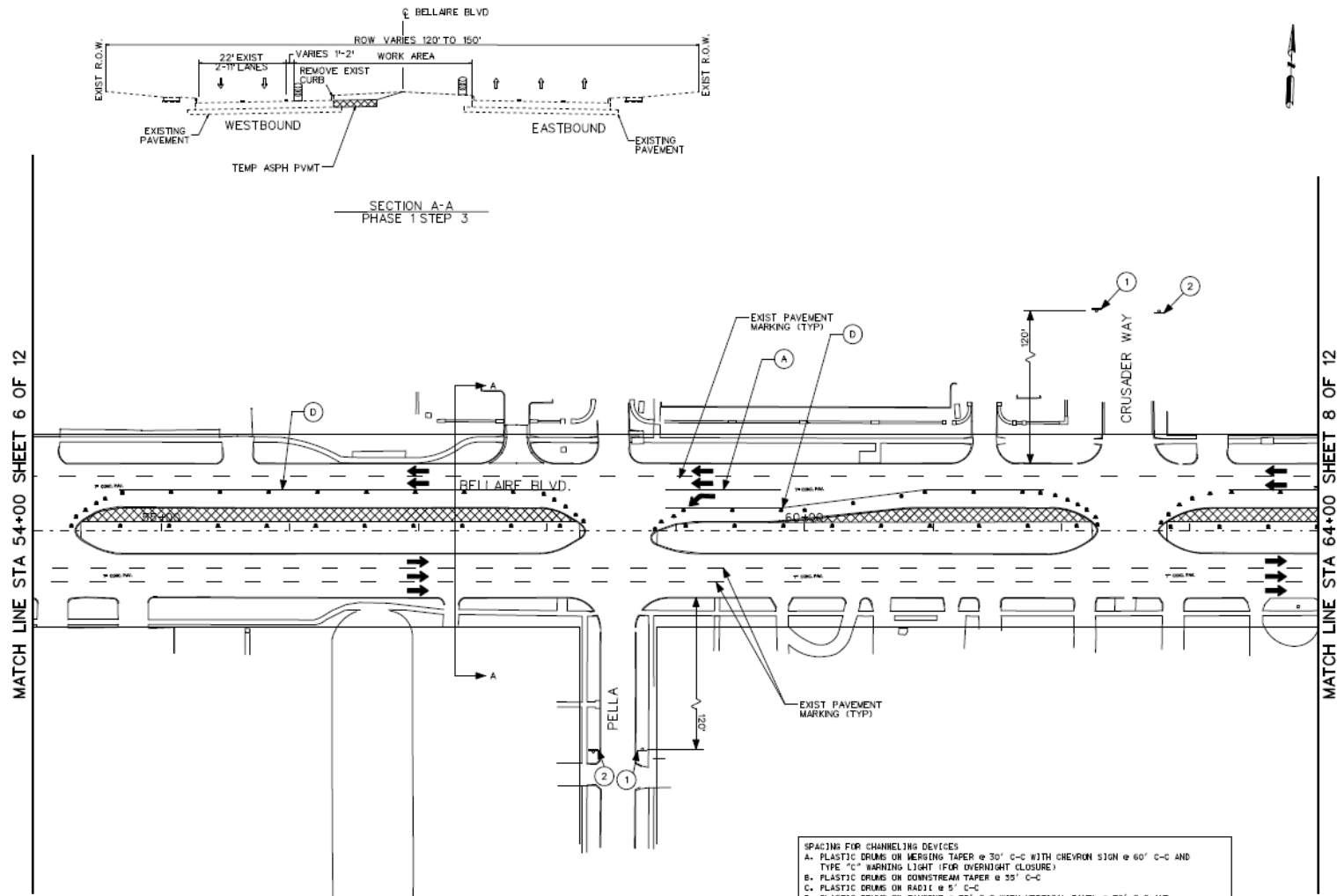
RECOMMENDED FOR PERMITTING: _____ APPROVED FOR PERMITTING: _____

AREA ENGINEER: _____ PERMIT DIRECTOR: _____

Phase 1 Step 2 Traffic Control Plan



Phase 1 Step 3 Traffic Control Plan



LEGEND	
[Pattern]	PERMANENT PAVEMENT CONSTRUCTION
[Pattern]	TEMPORARY ASPHALT PAVEMENT 1.5" HWAC W/8" HMA BLACK BASE
[Pattern]	HIGH EARLY STRENGTH QUICK SET CONCRETE PAVEMENT CONSTRUCTION
[Pattern]	TEMPORARY ASPHALT PAVEMENT CONSTRUCTED IN PREVIOUS PHASE/STEP
[Symbol]	DRUMS
[Symbol]	TYPE II BARRICADE
[Symbol]	LOW PROFILE CONCRETE TRAFFIC BARRIER
[Symbol]	CONSTRUCTION SIGN
[Symbol]	TRAFFIC DIRECTION ARROW
[Symbol]	TEMP 4" WHITE SOLID PAVMT MARKING W/RAISED PAVMT MKR TY 1-C AT 30' C-C
[Symbol]	TEMP 4" WHITE BROKEN PAVMT MARKING
[Symbol]	TEMP 24" WHITE SOLID PAVMT MARKING
[Symbol]	TEMP 4" YELLOW SOLID PAVMT MARKING W/RAISED PAVMT MKR TY 1-A AT 30' C-C
[Symbol]	TEMP 4" DOUBLE YELLOW SOLID PAVMT MARKING W/RAISED PAVMT MKR TY 11-A-A AT 40' C-C

NOTE
CONTRACTOR TO NOTIFY UTILITY COORDINATION COMMITTEE AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION IN STREET R.O.W. OR EASEMENTS (713) 223-4587

PRIVATE UTILITY LINES SHOWN

CENTERPOINT ENERGY/ELECTRIC FACILITIES
(Approved only for existing underground facilities. Unless otherwise noted, valid at time of review only.)

AT&T TEXAS/SBC UTILITY LINES SHOWN
(Approved only for existing underground conduit facilities only. Signature valid for one year.)

CENTERPOINT ENERGY/GAS FACILITIES
(Gas service lines are not shown)

COMCAST OF HOUSTON, LLC

REV NO	DESCRIPTION	APP'D	DATE

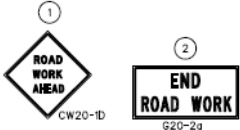
HNTB
2950 NORTH LOOP WEST
SUITE 600
HOUSTON, TEXAS 77062
(713) 254-2500
TX REG NO. 420
SURVEYED BY: SAM INC.
FB NO. P-5482

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
BELLARE BLVD. ACCESS MANAGEMENT & WIDENING
TRAFFIC CONTROL PLAN
PHASE 1 STEP 3
STA 54+00 TO 64+00

WBS NUMBER	T-200001-0001-4
DRAWING SCALE	
VERT: N/A	HORIZ: 1"=40'
QTY OF HOUSTON PW	
WFO: K. WARRAD, P.E.	
SHEET NO. 203 OF 475	

SPACING FOR CHANNELIZING DEVICES
A. PLASTIC DRUMS ON MERGING TAPER @ 30' C-C WITH CHEVRON SIGN @ 60' C-C AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE)
B. PLASTIC DRUMS ON DOWNSTREAM TAPER @ 35' C-C
C. PLASTIC DRUMS ON RADI @ 5' C-C
D. PLASTIC DRUMS ON TANGENT @ 35' C-C WITH VERTICAL PANEL @ 70' C-C AND TYPE "C" WARNING LIGHT @ 70' C-C (FOR OVERNIGHT CLOSURE)
E. PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE @ 20' C-C WITH VERTICAL PANEL @ 40' C-C AND TYPE "A" WARNING LIGHT @ 40' C-C (FOR OVERNIGHT CLOSURE)
F. CONCRETE TRAFFIC BARRIER (CTB) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) WITH REFLECTORS @ 10' C-C IF PAVEMENT DROP IS MORE THAN TWELVE (12') OR PLASTIC DRUMS W/ GUARD RAILS MOUNTED
NOTE - SPACING SHOWN ON TRAFFIC CONTROL PLANS SHALL BE SUPERSEDED BY THE ABOVE SPACINGS. SPACINGS MAY BE ADJUSTED TO PROVIDE DRIVEWAYS, INTERSECTIONS AND/OR MEDIAN OPENINGS.

NOTE:
1. SEE NOTES ON SHEET 1 OF 12.



Phase 1 Step 4 Traffic Control Plan

MATCH LINE STA 54+00 SHEET 6 OF 12

MATCH LINE STA 64+00 SHEET 8 OF 12

SPACING FOR CHANNELING DEVICES

A. PLASTIC DRUMS ON MERGING TAPER @ 30' C-C WITH CHEVRON SIGN @ 60' C-C AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE)

B. PLASTIC DRUMS ON DOWNSLOPE TAPER @ 35' C-C

C. PLASTIC DRUMS ON RADIUS @ 5' C-C

D. PLASTIC DRUMS ON TANGENT @ 35' C-C WITH VERTICAL PANEL @ 70' C-C AND TYPE "C" WARNING LIGHT @ 70' C-C (FOR OVERNIGHT CLOSURE)

E. PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE @ 20' C-C WITH VERTICAL PANEL @ 40' C-C AND TYPE "A" WARNING LIGHT @ 40' C-C (FOR OVERNIGHT CLOSURE)

F. CONCRETE TRAFFIC BARRIER (CTB) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) WITH REFLECTORS @ 10' C-C IF PAVEMENT DROP IS MORE THAN TWELVE (12") OR PLASTIC DRUMS W/ GUARD RAILS MOUNTED

NOTE - SPACING SHOWN ON TRAFFIC CONTROL PLANS SHALL BE SUPERSEDED BY THE ABOVE SPACINGS. SPACINGS MAY BE ADJUSTED TO PROVIDE DRIVEWAYS, INTERSECTIONS AND/OR MEDIAN OPENINGS.

- LEGEND**
- PERMANENT PAVEMENT CONSTRUCTION
 - TEMPORARY ASPHALT PAVEMENT
 - SET CONCRETE PAVEMENT CONSTRUCTION
 - HIGH EARLY STRENGTH, QUICK SET CONCRETE PAVEMENT CONSTRUCTION
 - TEMPORARY ASPHALT PAVEMENT CONSTRUCTED IN PREVIOUS PHASE/STEP
 - DRUMS
 - TYPE III BARRICADE
 - LOW PROFILE CONCRETE TRAFFIC BARRIER
 - CONSTRUCTION SIGN
 - TRAFFIC DIRECTION ARROW
 - TEMP 4" WHITE SOLID PVMT MARKING W/RAISED PVMT MKRKR TY 1-A AT 30' C-C
 - TEMP 4" WHITE BROKEN PVMT MARKING
 - TEMP 24" WHITE SOLID PVMT MARKING
 - TEMP 4" YELLOW SOLID PVMT MARKING W/RAISED PVMT MKRKR TY 1-A AT 30' C-C
 - TEMP 4" DOUBLE YELLOW SOLID PVMT MARKING W/RAISED PVMT MKRKR TY 1-A-A AT 40' C-C

NOTE

CONTRACTOR TO NOTIFY UTILITY COORDINATION COMMITTEE AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION IN STREET R.O.W. OR EASEMENTS (713) 223-4567

PRIVATE UTILITY LINES SHOWN

DATE _____
CENTERPOINT ENERGY/ ELECTRIC FACILITIES
(Approved only for existing underground facilities, unless otherwise noted.) Valid on time of review only.

DATE _____
AT&T TEXAS/SBC UTILITY LINES SHOWN
(Approved for AT&T Texas/SBC underground conduit facilities only. Signature valid for one year.)

DATE _____
CENTERPOINT ENERGY/GAS FACILITIES
(Line service lines are not shown)

DATE _____
COMCAST OF HOUSTON, LLC

REV NO	DESCRIPTION	APP'D	DATE

HNTB

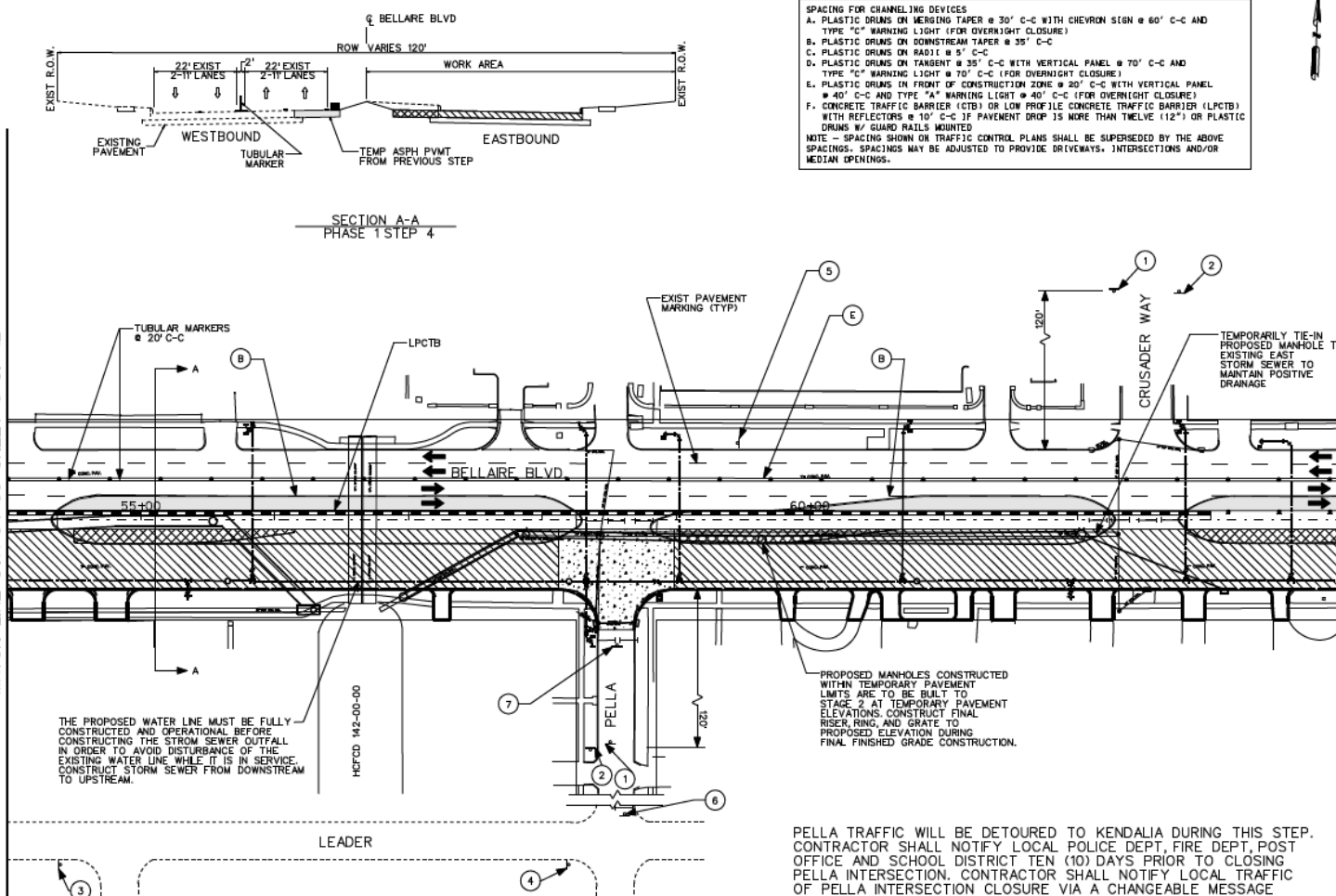
2800 NORTH LOOP WEST
SUITE 800
HOUSTON, TEXAS 77062
(713) 264-2600
TX REG NO. 420

SURVEYED BY: SAM INC.
FB NO. P-5482

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
BELLARE BLVD. ACCESS MANAGEMENT & WIDENING
TRAFFIC CONTROL PLAN
PHASE 1 STEP 4
STA 54+00 TO 64+00

SHEET 7 OF 12

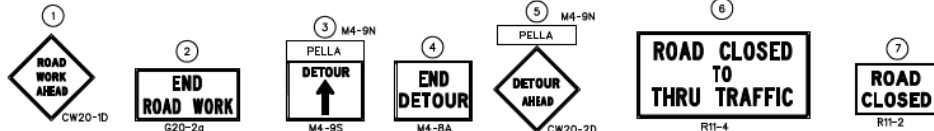
WBS NUMBER	T-200001-0001-4
DRAWING SCALE	VERT: N/A HORIZ: 1"=40'
CITY OF HOUSTON PM	MOND K. WARRNO, P.E.
SHEET NO. 215 OF 475	



THE PROPOSED WATER LINE MUST BE FULLY CONSTRUCTED AND OPERATIONAL BEFORE CONSTRUCTING THE STORM SEWER OUTFALL IN ORDER TO AVOID DISTURBANCE OF THE EXISTING WATER LINE WHILE IT IS IN SERVICE. CONSTRUCT STORM SEWER FROM DOWNSTREAM TO UPSTREAM.

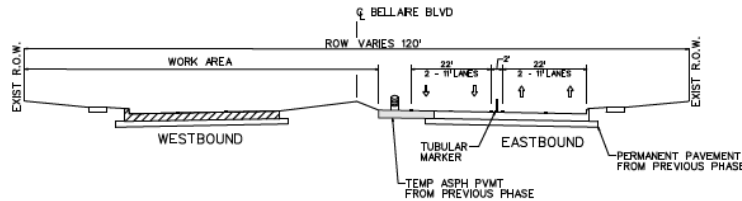
PROPOSED MANHOLES CONSTRUCTED WITHIN TEMPORARY PAVEMENT LIMITS ARE TO BE BUILT TO STAGE 2 AT TEMPORARY PAVEMENT ELEVATIONS. CONSTRUCT FINAL RISER, RING, AND GRATE TO PROPOSED ELEVATION DURING FINAL FINISHED GRADE CONSTRUCTION.

PELLA TRAFFIC WILL BE DETOURED TO KENDALIA DURING THIS STEP. CONTRACTOR SHALL NOTIFY LOCAL POLICE DEPT, FIRE DEPT, POST OFFICE AND SCHOOL DISTRICT TEN (10) DAYS PRIOR TO CLOSING PELLA INTERSECTION. CONTRACTOR SHALL NOTIFY LOCAL TRAFFIC OF PELLA INTERSECTION CLOSURE VIA A CHANGEABLE MESSAGE BOARD.



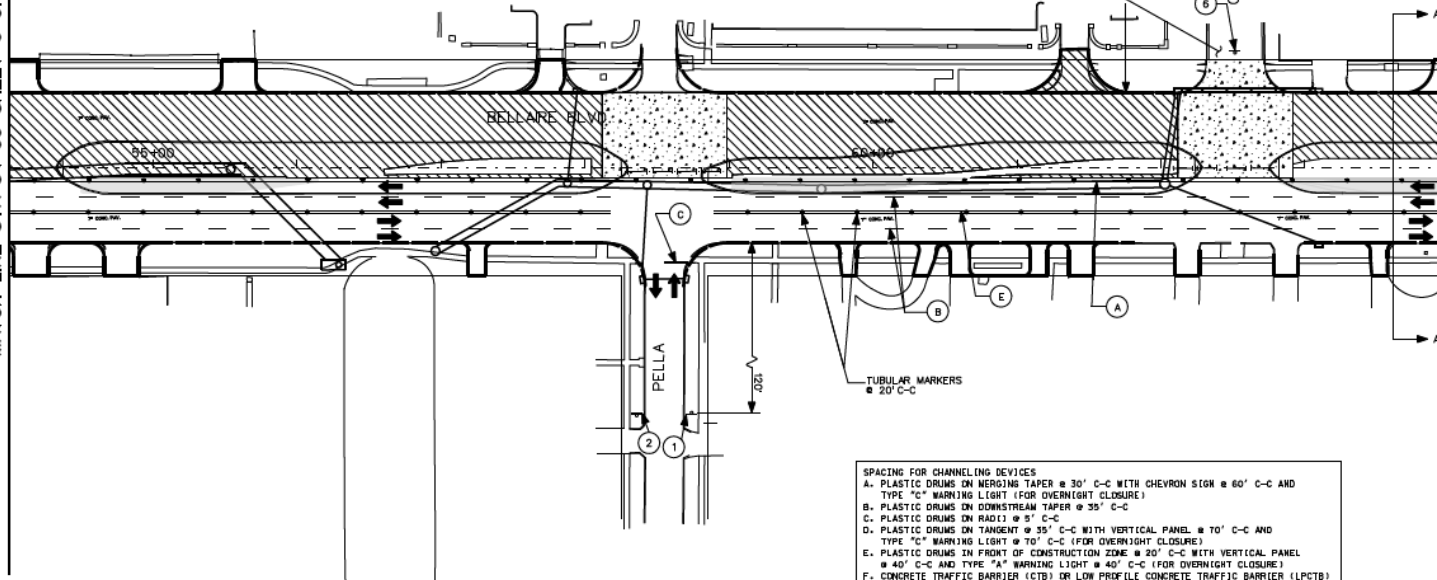
NOTE: 1. SEE NOTES ON SHEET 1 OF 12.

Phase 2 Step 1 Traffic Control Plan



SECTION A-A
PHASE 2 STEP 1

THE CLOSURE OF CRUSADER WAY WILL ONLY OCCUR WHEN SCHOOL IS CLOSED TO STUDENTS FOR AT LEAST A WEEK. ACCESS MAY NOT BE CLOSED WHEN SCHOOL IS IN SESSION. DETOUR TRAFFIC TEMPORARILY TO THE SCHOOL'S GESSNER ACCESS, REOPEN IMMEDIATELY AFTER CONSTRUCTION IS COMPLETED.



SPACING FOR CHANNELING DEVICES
A. PLASTIC DRUMS ON MERGING TAPER @ 30' C-C WITH CHEVRON SIGN @ 60' C-C AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE)
B. PLASTIC DRUMS ON DOWNSTREAM TAPER @ 35' C-C
C. PLASTIC DRUMS ON RADI @ 5' C-C
D. PLASTIC DRUMS ON TANGENT @ 55' C-C WITH VERTICAL PANEL @ 10' C-C AND TYPE "C" WARNING LIGHT @ 70' C-C (FOR OVERNIGHT CLOSURE)
E. PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE @ 20' C-C WITH VERTICAL PANEL @ 40' C-C AND TYPE "A" WARNING LIGHT @ 40' C-C (FOR OVERNIGHT CLOSURE)
F. CONCRETE TRAFFIC BARRIER (CTS) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) WITH REFLECTORS @ 10' C-C IF PAVEMENT DROP IS MORE THAN TWELVE (12") OR PLASTIC DRUMS W/ GUARD RAILS MOUNTED
NOTE - SPACING SHOWN ON TRAFFIC CONTROL PLANS SHALL BE SUPERSEDED BY THE ABOVE SPACINGS. SPACINGS MAY BE ADJUSTED TO PROVIDE DRIVEWAYS, INTERSECTIONS AND/OR MEDIAN OPENINGS.

LEGEND	
[Hatched Box]	PERMANENT PAVEMENT CONSTRUCTION
[Cross-hatched Box]	TEMPORARY ASPHALT PAVEMENT 15" HMA/C W/8" HMA BLACK BASE
[Dotted Box]	HIGH EARLY STRENGTH, QUICK SET CONCRETE PAVEMENT CONSTRUCTION
[Grey Box]	TEMPORARY ASPHALT PAVEMENT CONSTRUCTED IN PREVIOUS PHASE/STEP
•	DRUMS
—	TYPE III BARRICADE
—	LOW PROFILE CONCRETE TRAFFIC BARRIER
+	CONSTRUCTION SIGN
→	TRAFFIC DIRECTION ARROW
(A)	TEMP 4" WHITE SOLID PVMT MARKING W/RAISED PVMT MKRR TY I-C AT 30' C-C
(B)	TEMP 4" WHITE BROKEN PVMT MARKING
(C)	TEMP 24" WHITE SOLID PVMT MARKING
(D)	TEMP 4" YELLOW SOLID PVMT MARKING W/RAISED PVMT MKRR TY I-A AT 30' C-C
(E)	TEMP 4" DOUBLE YELLOW SOLID PVMT MARKING W/RAISED PVMT MKRR TY II-A-A AT 40' C-C

NOTE
CONTRACTOR TO NOTIFY UTILITY COORDINATION COMMITTEE AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION IN STREET R.O.W. OR EASEMENTS
(713) 223-4567

PRIVATE UTILITY LINES SHOWN

Date _____
CENTERPOINT ENERGY/ ELECTRIC FACILITIES
(Appeared only for existing underground facilities, unless otherwise noted.) Valid at time of review only.

Date _____
AT&T TEXAS/SBC UTILITY LINES SHOWN
(Appeared for AT&T Texas/SBC underground conduit facilities only. Signature valid for one year.)

Date _____
CENTERPOINT ENERGY/GAS FACILITIES
(Show service lines and not shown)

Date _____
COMCAST OF HOUSTON, LLC

REV NO	DESCRIPTION	APP'D	DATE

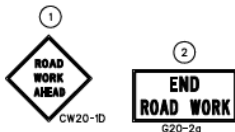
HNTB
2800 NORTH LOOP WEST
SUITE 800
HOUSTON, TEXAS 77062
(713) 354-1800
TX REG. NO. 432

SURVEYED BY: SAM INC.
FB NO. P-5482

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
BELLARE BLVD. ACCESS MANAGEMENT & WIDENING
TRAFFIC CONTROL PLAN
PHASE 2 STEP 1
STA 54+00 TO 64+00

SHEET 7 OF 12

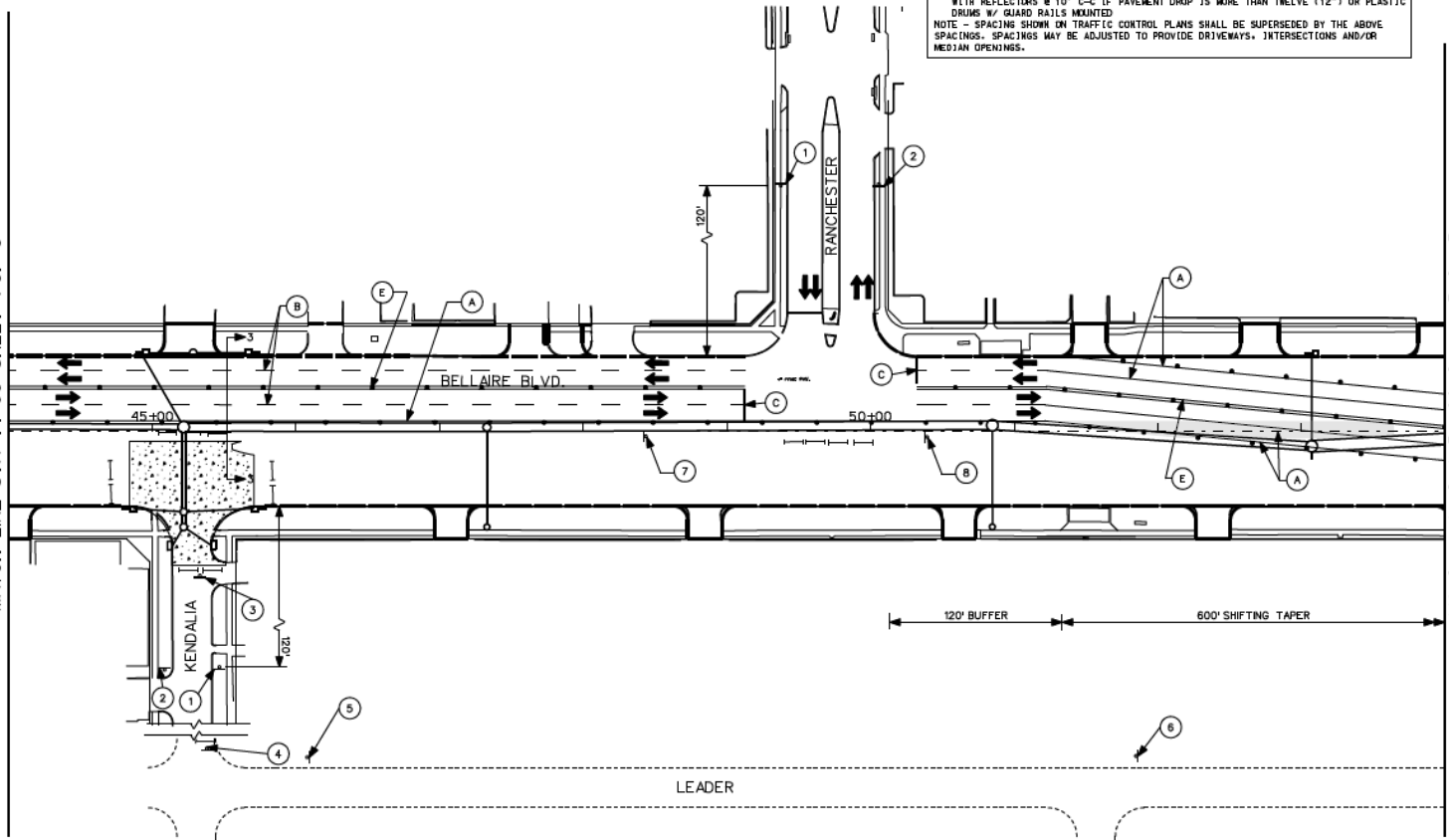
WBS NUMBER	T-200001-0001-4
DRAWING SCALE	VERT: N/A HORIZ: 1"=40'
QTY OF HOUSTON PM	MICHAEL K. WARRIOR, P.E.
SHEET NO.230 OF 475	



NOTE:
1. SEE NOTES ON SHEET 1 OF 12.

Phase 2 Step 2 Traffic Control Plan

MATCH LINE STA 44+00 SHEET 1 OF 3



SPACING FOR CHANNELING DEVICES
 A. PLASTIC DRUMS ON WEDGING TAPER @ 30' C-C WITH CHEVRON SIGN @ 60' C-C AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE)
 B. PLASTIC DRUMS ON DOWNSTREAM TAPER @ 35' C-C
 C. PLASTIC DRUMS ON RADI @ 5' C-C
 D. PLASTIC DRUMS ON TANGENT @ 35' C-C WITH VERTICAL PANEL @ 70' C-C AND TYPE "C" WARNING LIGHT @ 70' C-C (FOR OVERNIGHT CLOSURE)
 E. PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE @ 20' C-C WITH VERTICAL PANEL @ 40' C-C AND TYPE "A" WARNING LIGHT @ 40' C-C (FOR OVERNIGHT CLOSURE)
 F. CONCRETE TRAFFIC BARRIER (CTB) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) WITH REFLECTORS @ 10' C-C (IF PAVEMENT DROP IS MORE THAN TWELVE (12") OR PLASTIC DRUMS W/ GUARD RAILS MOUNTED)
 NOTE - SPACING SHOWN ON TRAFFIC CONTROL PLANS SHALL BE SUPERSEDED BY THE ABOVE SPACINGS. SPACINGS MAY BE ADJUSTED TO PROVIDE DRIVEWAYS, INTERSECTIONS AND/OR MEDIAN OPENINGS.

LEGEND

- PERMANENT PAVEMENT CONSTRUCTION
- TEMPORARY ASPHALT PAVEMENT
1.5" HMAAC W/8" HMA BLACK BASE
- SET CONCRETE PAVEMENT CONSTRUCTION
- TEMPORARY ASPHALT PAVEMENT
CONSTRUCTED IN PREVIOUS PHASE/STEP
- DRUMS
- TYPE III BARRICADE
- LOW PROFILE CONCRETE TRAFFIC BARRIER
- CONSTRUCTION SIGN
- TRAFFIC DIRECTION ARROW
- TEMP 4" WHITE SOLID PVMT MARKING
W/RAISED PVMT MKR TY I-C AT 30' C-C
- TEMP 4" WHITE BROKEN PVMT MARKING
- TEMP 24" WHITE SOLID PVMT MARKING
- TEMP 4" YELLOW SOLID PVMT MARKING
W/RAISED PVMT MKR TY I-A AT 30' C-C
- TEMP 4" DOUBLE YELLOW SOLID PVMT
TY II-A-A AT 40' C-C

NOTE

CONTRACTOR TO NOTIFY UTILITY
COORDINATION COMMITTEE AT
LEAST 48 HOURS PRIOR TO COMMENCING
ANY CONSTRUCTION IN STREET R.O.W.
OR EASEMENTS
(713) 223-4567

PRIVATE UTILITY LINES SHOWN

DATE
CENTERPOINT ENERGY/ ELECTRIC FACILITIES
(Approved only for existing underground facilities,
unless otherwise noted.) Valid on line of route only.

DATE
AT&T TEXAS/SBC UTILITY LINES SHOWN
(Approved for AT&T Texas/SBC underground conduit facilities only.
Signature valid for one year.)

DATE
CENTERPOINT ENERGY/GAS FACILITIES
(line service lines are not shown)

DATE
COMCAST OF HOUSTON, LLC

REV NO	DESCRIPTION	APP'D	DATE

HNTB
 2800 NORTH LOOP WEST
 SUITE 800
 HOUSTON, TEXAS 77062
 (713) 264-2600
 TX P&M No. 430

SURVEYED BY: SAM NG.
 FB NO. P-5482

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
 BELLAIRE BLVD. ACCESS MANAGEMENT & WIDENING
TRAFFIC CONTROL PLAN
PHASE 2 STEP 2
STA 44+00 TO 54+00

SHEET 2 OF 3

WBS NUMBER	T-200001-0001-4
DRAWING SCALE	VERT: N/A HORIZ: 1"=40'
QTY OF HOUSTON PW	MOHD K. WARRID, P.E.
SHEET NO.237 OF 475	



NOTE:
 1. SEE NOTES ON SHEET 1 OF 12.
 2. SEE SHEET 241A FOR TYPICAL SECTIONS.

Communication

- ADDITIONAL COMMUNICATION REQUIREMENTS BY THE CONTRACTOR
 - CANVAS OF PROJECT
 - COMMUNICATION TO CONSTITUENTS
 - Notifications
 - COMMUNICATION TO BOARD
 - Construction Representative
 - DRIVEWAY ACCESS SIGNAGE (See next slide)

Similar Driveway Access Signage



Access Management During Construction

- Cross Street access are maintained at all times with reduced lanes and temporary traffic signals
- Side Street – alternate side streets will be closed with detours to the next nearest side street access
- Driveway access are to be maintained at all times. Any driveway closures for construction must be coordinated with the property owner a minimum of 7 days prior to closure.
- Use of off-duty peace officers and certified flaggers, especially at schools

SCHEDULE

BELLAIRE BLVD ACCESS MANAGEMENT AND WIDENING - PRELIMINARY CONSTRUCTION SCHEDULE												
	Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012	Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012
GAS LINE / UTILITY RELOCATION												
ADVERTISEMENT												
AWARD												
TEMPORARY PAVEMENT												
WATER & SANITARY												
DRAINAGE												
ROADWAY												
MISC ITEMS												
LANDSCAPE / HARDSCAPE												

BELLAIRE BLVD ACCESS MANAGEMENT AND WIDENING - PRELIMINARY CONSTRUCTION SCHEDULE												
	Jan-2013	Feb-2013	Mar-2013	Apr-2013	May-2013	Jun-2013	Jul-2013	Aug-2013	Sep-2013	Oct-2013	Nov-2013	Dec-2013
WATER & SANITARY												
DRAINAGE												
ROADWAY												
MISC ITEMS												
LANDSCAPE / HARDSCAPE												

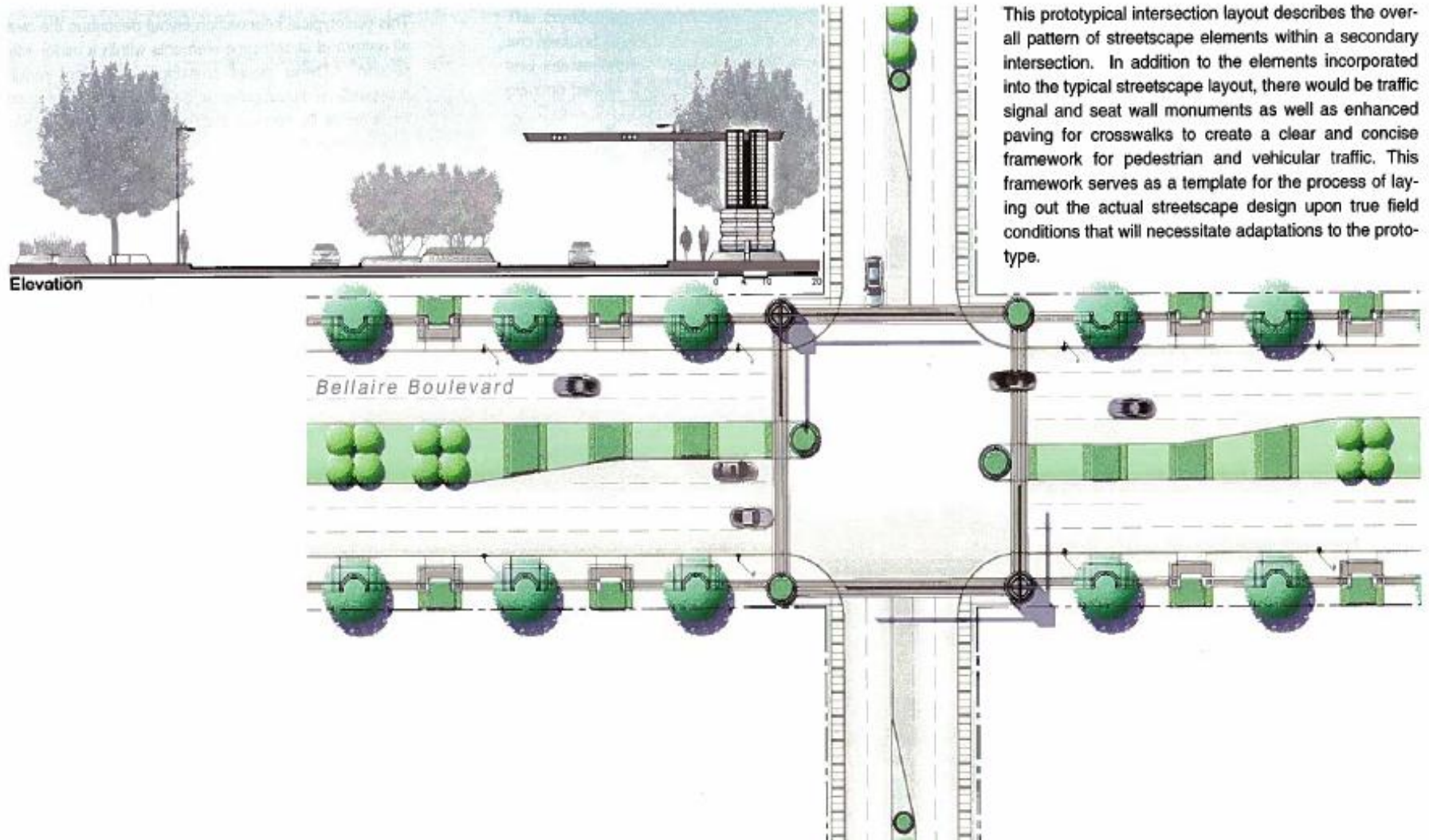
BELLAIRE BLVD ACCESS MANAGEMENT AND WIDENING - PRELIMINARY CONSTRUCTION SCHEDULE												
	Jan-2014	Feb-2014	Mar-2014	Apr-2014	May-2014	Jun-2014	Jul-2014	Aug-2014	Sep-2014	Oct-2014	Nov-2014	Dec-2014
WATER & SANITARY												
DRAINAGE												
ROADWAY												
MISC ITEMS												
LANDSCAPE / HARDSCAPE												

No Construction allowed during the December Holiday Season and Chinese New Year (Mid-December to Mid-February)

Projected Construction Costs

- WATER AND SEWER = \$4.8 M
- DRAINAGE = \$2.0 M
- ROADWAY = \$5.2 M
- LANDSCAPE/HARDSCAPE = \$2.7 M
- OTHER GENERAL ITEMS = \$7.0 M
 - (Removal of structures, Traffic/Ped Signals, HCTRA Fiber)
- TOTAL CONSTRUCTION COSTS = \$21.7 M
- TOTAL ENGINEERING AND OTHER = \$3.3 M
- **TOTAL ALL PROJECT COSTS = \$ 25.0 M**

Typical Intersection Improvements



Bellaire Boulevard Access Management and Widening Project

(Rogerdale Road to Osage Street)